

ABSTRACT OF THE DISCLOSURE

An energy transfer element having an energy transfer element input winding, an energy transfer element output winding and energy transfer element windings that reduce displacement currents. In one aspect, an energy transfer element includes an energy transfer element core with first and second windings wound around the energy transfer element core. The first winding is capacitively coupled to the second winding. A third winding is wound around the energy transfer element core to generate a third winding electrostatic field to substantially cancel relative electrostatic fields generated by the first and second windings.

5 relative to the energy transfer element core to substantially reduce a capacitive displacement current between the first and second windings. Fourth and fifth windings are wound around the energy transfer element core between the first and second windings to substantially reduce the capacitive displacement current between the first and second windings. The fourth winding is coupled to the first

10 winding and the fifth winding coupled to the second winding.

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